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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/508,026 05/05/00 NOMURA JG-YY-4952 **EXAMINER** HM12/0913 JULES E GOLDBERG SRIPADA, P MCAULAY FISHER NISSEN GOLDBERG & KIEL ART UNIT PAPER NUMBER 261 MADISON AVENUE NEW YORK NY 10016-2391 1624 **DATE MAILED:** 09/13/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No. Applicant(s) MOMURA et a 7
	Examiner PR SRIPADA Group Art Unit
The MAILING DATE of this communication appears	on the cover sheet beneath the correspondence address-
Period for Response	2
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SETMAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE MONTH(S) FROM THE
from the mailing date of this communication. - If the period for response specified above is less than thirty (30) days, a - If NO period for response is specified above, such period shall, by defau	36(a). In no event, however, may a response be timely filed after SIX (6) MONTHS response within the statutory minimum of thirty (30) days will be considered timely. It, expire SIX (6) MONTHS from the mailing date of this communication . statute, cause the application to become ABANDONED (35 U.S.C. § 133).
Status	
☐ Responsive to communication(s) filed on	•
☐ This action is FINAL .	
☐ Since this application is in condition for allowance except fo accordance with the practice under <i>Ex parte Quayle</i> , 1935 (
Disposition of Claims	
Claim(s) 22 36	is/are pending in the application. is/are withdrawn from consideration.
Of the above claim(s)	is/are withdrawn from consideration.
	is/are allowed.
Claim(s) 22 ~ - 36	is/are rejected.
Claim(s)	is/are objected to.
	are subject to restriction or election requirement.
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawing F	
☐ The proposed drawing correction, filed on	
☐ The drawing(s) filed on is/are objected ☐ The specification is objected to by the Examiner.	to by the Examiner.
☐ The oath or declaration is objected to by the Examiner.	
Prjority∕ander 35 U.S.C. § 119 (a)-(d)	
Acknowledgment is made of a claim for foreign priority under All Some* None of the CERTIFIED copies of the received.	
received in Application No. (Series Code/Serial Number)	·
☐ received in this national stage application from the Intern	
*Certified copies not received:	•
Attachment(s)	
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s	s) Interview Summary, PTO-413
Notice of References Cited, PTO-892	☐ Notice of Informal Patent Application, PTO-152
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	☐ Other
Office A	Action Summary

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DETAILED ACTION

Claims 22-36 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 22-36 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for Y1 = heterocycle, does not reasonably provide enablement for R1,R2 and Y2 = heterocycle. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The cited examples only represent compounds with Y1= hetero or alicyclic. The claims, however, permit values of heterocycle for substituents R1, R2 and Y2. Note in cases involving physiological activity, "the scope of enablement varies inversely with the degree of unpredictability of the factors involved." In re Fisher 166 USPQ 18 (CCPA 1970).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 22-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 4-139182 (A) 13/5/1992. The abstract supplied by the applicant, teaches a formula I, which has an epoxysuccinic acid amide inhibiting Cathepsin B. The scope and content of the abstract embraces the instant compounds with permitted values of R1, R2, Y1 and Y2. Note in the obviousness rejection the prior art compounds need not be exactly the same..

Claims 22-36 rejected under 35 U.S.C. 103(a) as being unpatentable over Ichihara et al., J. Pharm. Sci., Vol 80, No 3, March 1991. The prior art, also supplied by the applicant teaches the compound NCO-700 (1) with the formula with epoxy succinimide attached on one side to an ester and on the other side to a heterocycle joined through an amide bond. The heterocycle piperazine is further attached to an aromatic ring. The art articulates the use of the said compounds as protease inhibitor. The instant compounds bear a striking resemblance to the prior

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art compounds. In the absence of applicants showing the criticality of the minor differences, the instant compounds are rendered obvious..

Specification

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

The abstract and title should be limited to the specific heterocycles attached to a specific positi0n as e.g., Y1.

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Applicants should submit 1449 form citing the references such that examiner can certify that the references are looked into.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pavanaram K. Sripada whose telephone number is (703) 308-4717. The examiner can normally be reached on Monday thru Friday from 8:00 AM to 4:30 PM.

The fax phone number for this Group is (703) 308-4734 for "unofficial" purposes and the actual number for **OFFICIAL** business is **308-4556**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

princent J. Shal

Mukund J. Shah

Supervisory Patent Examiner

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P. K. Sripada

September 11, 2000